

Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52176 Entry Year 2019 Acreage: 1,191

County Cheboygan

Management Area: Cheboygan Lake Plain

Revision Date: 2017-04-21

Stand Examiner: Tricia St. Pierre

Legal Description:
Cheboygan County

T35N R01W. Section 18: W1/2SW

T35N R02W, Section 13: S1/2, W1/2NW, NENW; 14: all except SWNE; 15: NWNW; NENE.

Identified Planning Goals:

To provide for the protection, integrated management, and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan and its residents. There also exist targets for establishing and maintaining red pine across the landscape within this Management Area and compartment, in particular.

Soil and topography:

Topography is generally flat or gently rolling, with the exception of carved channels (sometimes rather steep) and adjacent hilly deposits of loamy sand. The majority of this compartment is Lacustrine Sand, comprised largely of Zimmerman fine sand, Rubicon sand, Croswell sand, and Au Gres sand; however, there are numerous soil types throughout, especially variable in the north half of the compartment. The far east portion is Ice-Contact Outwash Sand, dominated by Brevort mucky loamy sand, Riggsville loamy sand, and others. The Little Pigeon creek bottom is a Bowstring muck, which frequently floods.

Kotar habitat types show moderately productive soils, supporting PArVVb, PArVCo, and PArVHa types. There is also a significant inclusion of unclassified lowland. AFO/AFOCa and PArVVb/AFO are rarities within these boundaries.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

This compartment is spread out east to west, surrounded rather equally by state and private ownership. Aside from a removed 80 acre parcel, ownership is fairly well consolidated with the exception of an isolated 40 in the middle of the compartment. Rural housing development is slowly evolving, fragmenting the landscape as people seek property on or near the many water resources in the area. Land use within the compartment is predominately timber driven. Hunting and trapping are arguably the most popular non-DNR uses of this compartment.

Unique Natural Features:

MNFI has identified occurrences of unique natural features within and around this compartment. While few occurrences exist, the potential is great for other rare and T&E species to be present on the landscape. Management practices should be alert to and respectful of this potential.

Archeological, Historical, and Cultural Features:

There are no known occurrences of Archaeological, Historical, or Cultural Features within this compartment.

Special Management Designations or Considerations:

A recurring fire regime could be instrumental in maintaining natural pine across this landscape if properly implemented. Management of the red pine resource should be strategic in maintaining it on the landscape while keeping alert to the potential for Heterobasidion Root Disease.

Special considerations should be made for management along any watercourse as beaver are active and potentially destructive to forest and water resources. Beaver damage has been found as far as 400-feet away from the Little Pigeon.

Watershed and Fisheries Considerations:

Chebovgan County

T35N, R02W, Sec. 13, 14, 15

This compartment is in the Pigeon River watershed, and contains portions of the Pigeon River, Little Pigeon River, Silver Creek, and Silver Lake. The Little Pigeon River and the Pigeon River are designated trout streams. The Little Pigeon River and Silver Creek have type 1 trout stream regulations, while the Pigeon River in this compartment has type 4 trout streams regulations. A buffer should be maintained next to these rivers to reduce erosion and discourage beaver activity.

Wildlife Habitat Considerations:

This compartment is diverse in cover types and offers quality habitat fro several featured species including deer, grouse, woodcock, beaver, and others. There is potential to improve some of these habitats for featured species through timber harvest within stands 38, 49, and 50. Also, wildlife would like to burn stand 52 as funding allows to maintain the open character. If burning is not feasible, other, mechanical methods will be used to achieve this purpose.

Mineral Resource and Development Concerns and/or Restrictions

Section 18, T35N R1W and sections 13-16, T35N R2W, Cheboygan County

This area has been leased for oil and gas exploration in the recent past as part of the Collingwood lease play. While the Collingwood has produced some hydrocarbons from a well just to the south, the formation has not proven to be an economically viable resource play to date. Interest in the formation has waned and all leases in the area have expired. There are no other known oil and gas prospects in the area. Therefore, oil and gas potential within the compartment is considered low at this time. No sand/gravel pits are located within the compartment. There are two large, active pits to the south. These are primarily limestone quarries. The Traverse Limestone is at or near the surface in this area. There appears to be greater than 150 feet of glacial sediments overlying the Traverse Limestone within the compartment, so bedrock limestone potential is considered minimal. Clay appears to be abundant in the surface sediments and gravel is limited or at depth.

Vehicle Access:

Vehicular access is pretty limited to and within this compartment, especially in the winter months. None of the roads to this compartment are plowed; the best access is by snowmobile or on foot during the winter. There is a Director's Order on the state-owned parcel in Section 15 limiting road construction and ORV use to existing roads and trails. River channels, natural corridors, and sandy soils limit road density and location in the large block of state-land.

Survey Needs:

There are no survey needs at this time.

Recreational Facilities and Opportunities:

There are no designated recreational trails within this compartment. ORVs frequently run these two-tracks, however. Recreational pursuits are therefore limited to hunting, trapping, fishing, and other non-motorized activities.

Fire Protection:

While fire has an important role in the ecological processes within this compartment, there are only a few volatile covertypes. Sparse jack pine and dead trees are the predominant hazardous fuels. Mature natural red pine and white pine stands could benefit from allowing fire to burn to natural barriers. Should fire occur, access will be the major obstacle in effective response times. Reliable and accessible water sources will be at the south end of Mullet Lake. Silver Lake is a private, gated community. Access to the Little Pigeon and Silver Creek may be difficult with steep terrain, limited road access, and sensitive soils.

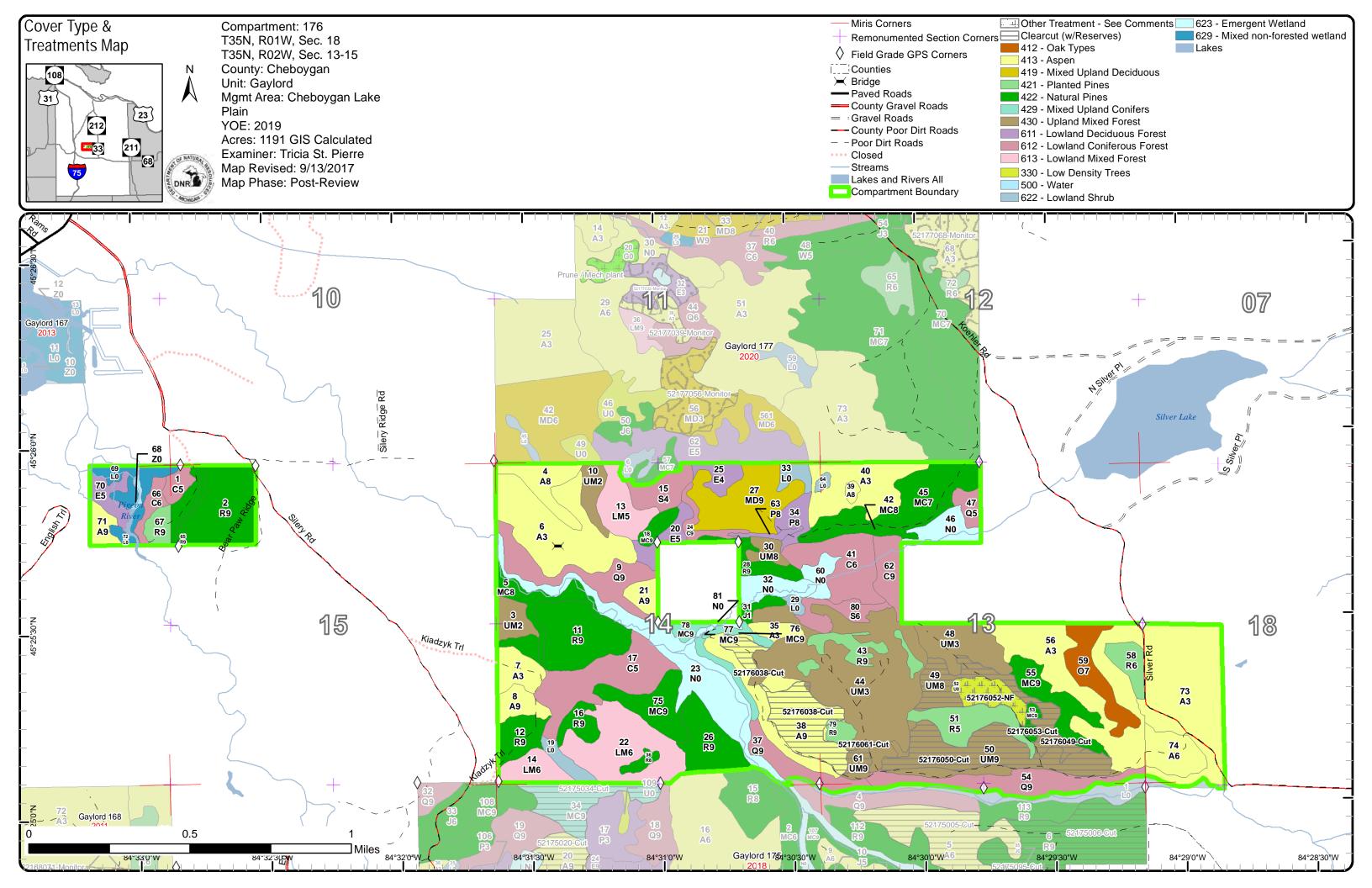
Additional Compartment Information:

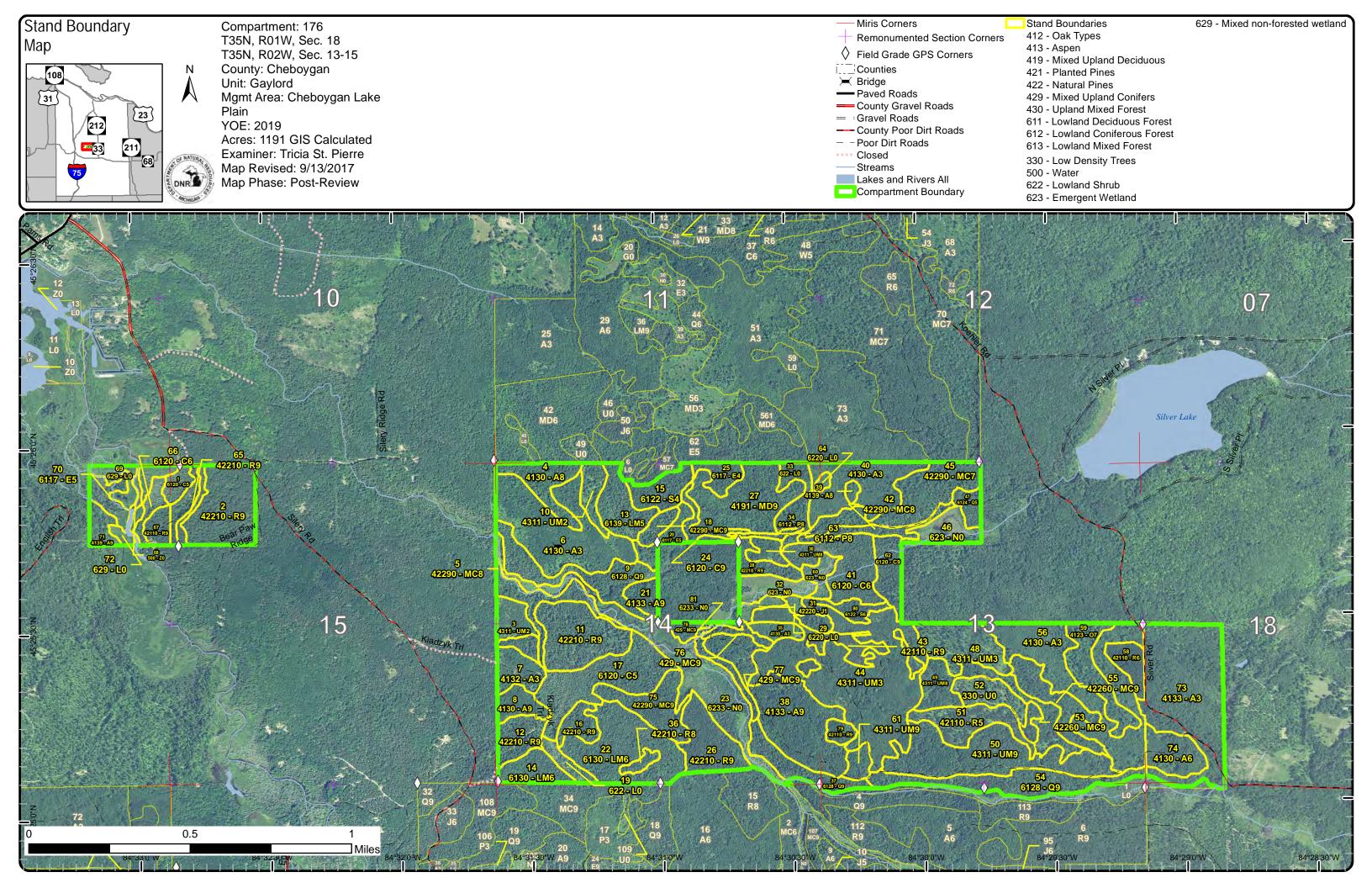
The following reports from the Inventory are attached:

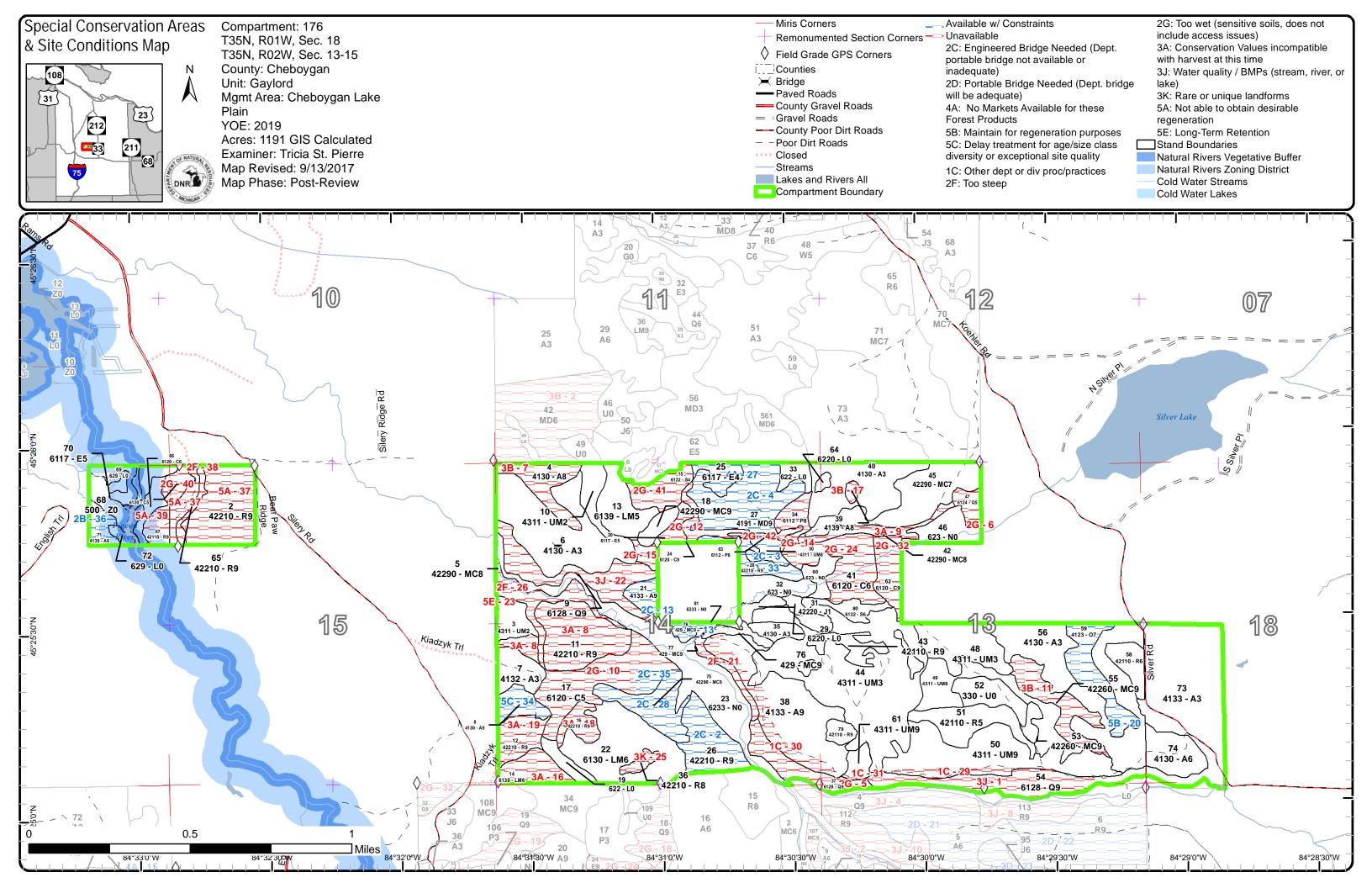
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

The following information is displayed, where pertinent, on the attached compartment maps:

Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system







Compartment 176 Year of Entry 2019

Tricia St. Pierre : Examiner

Gaylord Mgt. Unit



Age Class

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Aspen	0	0	141	0	14	0	8	0	53	14	8	0	0	0	0	0	0	64	301
Cedar	0	0	0	0	0	0	0	0	5	0	16	34	0	25	0	0	0	5	84
Jack Pine	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Low-Density Trees	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
Lowland Conifers	0	0	0	0	0	0	0	0	23	0	0	25	13	5	0	0	0	0	66
Lowland Deciduous	0	0	0	0	0	0	8	0	0	0	13	0	0	0	0	0	0	0	21
Lowland Mixed Forest	0	0	0	0	0	37	0	15	11	0	0	0	0	0	0	0	0	0	62
Lowland Shrub	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Spruce/Fir	0	0	0	0	0	0	0	11	9	0	0	0	0	0	0	0	0	0	20
Marsh	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32
Natural Mixed Pines	0	0	0	0	0	0	0	3	18	17	0	5	13	0	0	0	0	37	93
Oak	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	18
Red Pine	0	0	0	0	0	0	40	0	20	14	39	0	38	0	11	0	3	0	165
Upland Conifers	0	0	0	0	0	0	0	5	0	3	4	0	0	0	0	0	0	0	12
Upland Mixed Forest	0	20	15	84	0	0	23	45	5	5	0	0	0	0	0	0	0	0	196
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	109	20	159	84	14	37	79	79	144	53	121	64	82	30	11	0	3	106	1191



Report 2 – Treatment Summary

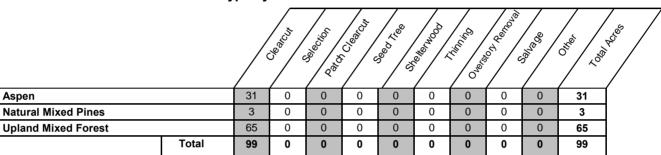
Gaylord Mgt. Unit Year of Entry: 2019

Acres of Harvest

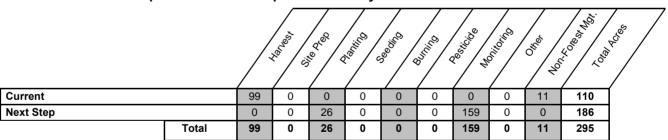
Compartment 176
Total Compartment Acres: 1,191

Commercial Harvest - 99 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Compartment: 176 Year of Entry: 2019

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t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
38	52176038-Cut	30.5	4133 - Aspen, Mixed Pine	Sawtimber Well	72	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Two-Aged	Draft Field Boundary

Habitat Cut: No Site Condition:

Prescription Clearcut all trees 2" dbh and greater, except do not cut any red pine, white pine, red oak, or white spruce. Summer harvest to promote scarification and pine regeneration. Use oak wilt spec in contract. Exclude small red pine plantation (far west leg). Specs:

Maintain a 300' buffer from creek to deter beaver activity. Leave any obvious den trees. Utilize existing red line as much as possible for harvest

boundaries. BLACK OUT DEVIATIONS FROM ORIGINAL LINE.

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Regeneration will meet minimum stocking requirements for aspen. Any inclusion of conifers or other deciduous species will be acceptable.

Regen:

Other Retention will be portion of stand protected by buffer. Stand will become two-aged with pine overstory.

Comment:

10/01/2018 Proposed Start Date:

4319 - Mixed 52176049-Cut 23.4 4311 - Pine, Aspen Sawtimber 51-80 Harvest Clearcut with Two-Aged Draft Field Medium Mix Retention Unland Forest Boundary

Site Condition: Habitat Cut: No

Prescription Clearcut all trees to 2" dbh except red pine, white pine, oak. Place retention around dense pockets of oak regen and around wet pocket(s) (see Specs:

inventory notes). Summer harvest to promote scarification. Require oak wilt spec.

Next Step Monitoring, Natural Regen (Re-Inventory); Planting, Interplant; Monitoring, Artificial Regen(1yr); Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration will be a moderate to well stocking of mixed aspen, red maple, jack pine, and other conifer in any composition.

Regen:

Other Comment:

Proposed Start Date: 10/01/2018

38.1 4311 - Pine, Aspen Sawtimber Draft Field 50 52176050-Cut 81-110 Harvest Clearcut with 413 - Aspen Two-Aged Mix Well Retention Boundary

Habitat Cut: No Site Condition:

Prescription Clearcut all trees 2" dbh and greater, except do not cut any red pine, white pine, red oak, or white spruce. Summer harvest to promote

scarification and pine regeneration. Use oak wilt spec in contract. Specs:

Maintain a 300' buffer from creek to deter beaver activity. Leave any obvious den trees. Utilize existing red line as much as possible for harvest

boundaries, BLACK OUT DEVIATIONS FROM ORIGINAL LINE.

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Regeneration will meet minimum stocking requirements for aspen. Any inclusion of conifers or other deciduous species will be acceptable.

Regen:

Other Retention will be portion of stand protected by buffer. Stand will become two-aged with pine overstory.

Comment:

Proposed Start Date: 10/01/2018

52176052-NF 10.9 330 - Low-Density Nonstocked Unspec NonForestMgt Other - Specify 3205 - Mixed Draft Field Trees ified Upland Shrub Boundary

Habitat Cut: No Site Condition:

Prescription Preferred method is to Rx burn to maintain NF Opening.

Protect apple tree and log-sized oaks. Alternative, mechanical means will be used if funding for burn is unavailable (e.g., brush hog). Specs:

Monitoring, Other - Specify Next Step

Treatments:

Acceptable N/A

Regen:

Other Comment:

Proposed Start Date: 10/01/2019

Compartment: 176 Year of Entry: 2019

a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
53	52176053-Cut	3.0	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	61	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Two-Aged	Draft Field Boundary

Habitat Cut: No Site Condition:

Prescription Clearcut all trees to 2" dbh, except red and white pine (and oak, if found). No retention due to small stand size and regeneration objectives. Oak Specs:

wilt spec required for oak in the area.

Next Step Planting, Interplant; Monitoring, Artificial Regen(1yr); Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration will be a mix of pine and deciduous species in any combination.

Regen:

S

Other Stand will eventually become two-aged with overstory pine retention.

Comment:

Proposed Start Date: 10/01/2018

Draft Field 52176061-Cut 3.6 4311 - Pine, Aspen Sawtimber 86 111-Clearcut with Harvest 413 - Aspen Two-Aged Mix Well 140 Retention Boundary

Habitat Cut: No Site Condition:

Prescription Clearcut all trees 2" dbh and greater, except do not cut any red pine, white pine, red oak, or white spruce. Summer harvest to encourage

Specs: scarification and promote pine regeneration. Use oak wilt spec in contract.

Maintain a 300' buffer from creek to deter beaver activity. Leave any obvious den trees.

Utilize old red paint as much as possible. Black out any deviations from original harvest boundary.

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Acceptable regeneration will meet minimum stocking requirements for aspen. Any inclusion of conifers will be acceptable.

Regen:

Other Retention will be portion of stand protected by buffer. Stand will become two-aged with pine/oak overstory.

Comment:

Proposed Start Date: 10/01/2018

Total Treatment Acreage Proposed:

109.5

Compartment: 176

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Availa	ability for	Managemer	nt																
Total	Acres	Acres Avail	Acres	De	omina	nt Site	e Cond	ditions	5										
Acres	Available	With Condition	Not Available		2B	2C	2D	4A	5B	5C	1C	2F	2G	ЗА	3B	3J	3K	5A	5E
300	252	19	28	Aspen	6	6				8	13		0		15				
84	5	4	75	Cedar		4							75	0					
3	3	0	0	Jack Pine															
11	11	0	0	Low-Density Trees															
9	0	0	9	Lowland Aspen/Balsam Poplar									9						
67	2	0	65	Lowland Conifers									18			46			
21	8	6	7	Lowland Deciduous				6					7						
63	52	0	11	Lowland Mixed Forest		0								11					
26	26	0	0	Lowland Shrub															
20	9	0	11	Lowland Spruce/Fir									11						
70	70	0	0	Marsh										0		0			
32	0	32	0	Mixed Upland Deciduous		32							0						
92	37	18	37	Natural Mixed Pines		18						13	0	8	17				
18	0	18	0	Oak					18										
164	40	28	96	Red Pine		20	8					3	0	50			3	40	
12	4	3	5	Upland Conifers		3						5							
198	178	5	15	Upland Mixed Forest		5					7				0				8
2	2	0	0	Water															
1,191	699	133	359	Total Forested Acres	6	87	8	6	18	8	20	20	121	68	32	46	3	40	8
	59%	11%	30%	Relative Percent															

^{*}Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site Dominant Site No. Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1 Unavailable	3J: Water quality / BMPs (stream, river, or lake)	23	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified

Comments:

Fresh beaver activity was discovered in west part of stand on 12/15/15 during inventory. Stand to the north is prescribed to be clear cut. Adjusted compartment boundaries and updated site condition to 3J.

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2	Available	2C: Engineered Bridge Needed (Dept. portable	20	Unspecified	Unspecified	Unspecified	Unspecified
		bridge not available or inadequate)					
	Comments: Natural RP stand, n	nixed with aspen and maple.	Need m	ore info before a treatment	desicion is made.		
3	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Will need a bridge / surface.	culvert installed on the easter	n side o	f stand, before sale can be	harvested. Drainage is ab	out 60 feet wide with flowi	ng water across
4	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	32	Unspecified	Unspecified	Unspecified	Unspecified
		d is limited to crossing two smachains across (stand 24).	all ravino	es with flowing water at or n	ear the surface. The sma	ller of the the two is 60 fee	t wide, the larger
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

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7	Unavailable	3B: Threatened, endangered, and special concern species	14	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
8	Unavailable	3A: Conservation Values incompatible with harvest at this time	32	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
9	Unavailable	3A: Conservation Values incompatible with harvest at this time	8	Unspecified	Unspecified	Unspecified	Unspecified
•	Comments:						
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
11	Unavailable	3B: Threatened, endangered, and special concern species	17	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						

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12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
13	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	9	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
16	Unavailable	3A: Conservation Values incompatible with harvest at this time	11	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						

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17	Unavailable	3B: Threatened, endangered, and special concern species	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
C	Comments:						
18	Unavailable	3A: Conservation Values incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
19	Unavailable	3A: Conservation Values incompatible with harvest at this time	11	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
20	Available	5B: Maintain for regeneration purposes	18	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
21	Unavailable	2F: Too steep	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
C	Comments:						
22	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	23	5A: Not able to obtain desirable regeneration	1C: Other dept or div proc/practices	Unspecified	Unspecified
C	Comments:						

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23							
	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
(Comments:						
25	Unavailable	3K: Rare or unique landforms	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Slight upland relic բ	oine stand.					
26	Unavailable	2F: Too steep	13	3J: Water quality / BMPs (stream, river, or lake)	3K: Rare or unique landforms	Unspecified	Unspecified
	comments: /ery steep slopes i	n areas; seasonal drainages wit	th sens	sitive soils, SMZs.			
١		in areas; seasonal drainages wit 4A: No Markets Available for these Forest Products	th sens	unspecified	Unspecified	Unspecified	Unspecified
27	Available Comments:	4A: No Markets Available	6	Unspecified	<u> </u>		Unspecified
27	Available Comments:	4A: No Markets Available for these Forest Products	6	Unspecified	<u> </u>		Unspecified Unspecified

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Comments: 30 Unavailable 1C: Other dept or div proc/practices 13 3J: Water quality / BMPs (stream, river, or lake) Comments: 300' buffer on stream to deter beaver activity and protect stream quality. This will also serve as long term retention for adjacent harvest. 31 Unavailable 1C: Other dept or div proc/practices 1 3J: Water quality / BMPs (stream, river, or lake) Comments: 300' buffer on stream to deter beaver activity and protect stream quality. This will also serve as long term retention for adjacent harvest. 32 Unavailable 2G: Too wet (sensitive soils, does not include access issues) Comments: 33 Available 2D: Portable Bridge Needed (Dept. bridge will be adequate) 8 2E: Road needed Unspecified Unspecified Unspecified Unspecified	Unavailable 1C: Other dept or div proc/practices 13 BMPs (stream, river, or lake) O' buffer on stream to deter beaver activity and protect stream quality. This will also serve as long term retention for adjacent harvest. Unavailable 1C: Other dept or div proc/practices 1 BMPs (stream, river, or lake) O' buffer on stream to deter beaver activity and protect stream quality. This will also serve as long term retention for adjacent harvest. Unavailable 2G: Too wet (sensitive soils, does not include access issues) 1 3J: Water quality / BMPs (stream, river, or lake) Unspecified Unspecifi		Unavailable	1C: Other dept or div proc/practices	6	3J: Water quality / BMPs (stream, river, or lake)	5E: Long-Term Retention	Unspecified	Unspecified
Comments: 300' buffer on stream to deter beaver activity and protect stream quality. This will also serve as long term retention for adjacent harvest. 1 Unavailable 1C: Other dept or div proc/practices 1 BMPs (stream, river, or lake) 5E: Long-Term Retention Unspecified Retention Unspecified Purpoc/practices 200' buffer on stream to deter beaver activity and protect stream quality. This will also serve as long term retention for adjacent harvest. 1 Unavailable 2G: Too wet (sensitive soils, does not include access issues) 1 3J: Water quality / BMPs (stream, river, or lake) Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Needed (Dept. bridge will	proc/practices BMPs (stream, river, or lake) Ou' buffer on stream to deter beaver activity and protect stream quality. This will also serve as long term retention for adjacent harvest. Unavailable 1C: Other dept or div proc/practices 1 a 3J: Water quality / BMPs (stream, river, or lake) Ou' buffer on stream to deter beaver activity and protect stream quality. This will also serve as long term retention for adjacent harvest. Unavailable 2G: Too wet (sensitive soils, does not include access issues) 11 a 3J: Water quality / BMPs (stream, river, or lake) BMPs (stream, river, or lake) Unspecified	C	Comments:						
300' buffer on stream to deter beaver activity and protect stream quality. This will also serve as long term retention for adjacent harvest. 1 Unavailable 1C: Other dept or div proc/practices 1 BMPs (stream, river, or lake) 1 SJ: Water quality / BMPs (stream, river, or lake) 5E: Long-Term Retention 1 Retention 5E: Long-Term Retention 1 No procified 1 SJ: Water quality. This will also serve as long term retention for adjacent harvest. 300' buffer on stream to deter beaver activity and protect stream quality. This will also serve as long term retention for adjacent harvest. 32 Unavailable 2G: Too wet (sensitive soils, does not include access issues) 11 SJ: Water quality / BMPs (stream, river, or lake) Comments: 43 Available 2D: Portable Bridge Needed (Dept. bridge will)	Unavailable 1C: Other dept or div proc/practices 1 3J: Water quality / BMPs (stream, river, or lake) Unavailable 2G: Too wet (sensitive soils, does not include access issues) 1 3J: Water quality / BMPs (stream, river, or lake) Unspecified Unsp	30	Unavailable		13	BMPs (stream, river, or		Unspecified	Unspecified
Comments: 300' buffer on stream to deter beaver activity and protect stream quality. This will also serve as long term retention for adjacent harvest. 32 Unavailable 2G: Too wet (sensitive soils, does not include access issues) BMPs (stream quality / Unspecified Unspe	proc/practices BMPs (stream, river, or lake) Comments: Ou' buffer on stream to deter beaver activity and protect stream quality. This will also serve as long term retention for adjacent harvest. Unavailable 2G: Too wet (sensitive soils, does not include access issues) 11			ım to deter beaver activity and p	orotect	stream quality. This will also	serve as long term retent	ion for adjacent harvest.	
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Soils, does not include access issues) Comments: 33 Available 2D: Portable Bridge 8 2E: Road needed Unspecified Unspecified Needed (Dept. bridge will	soils, does not include access issues) BMPs (stream, river, or lake) omments: Available 2D: Portable Bridge Needed (Dept. bridge will be adequate) 8 2E: Road needed Unspecified Unspecified Unspecified			ım to deter beaver activity and p	orotect	stream quality. This will also	serve as long term retent	ion for adjacent harvest.	
33 Available 2D: Portable Bridge 8 2E: Road needed Unspecified Unspecified Needed (Dept. bridge will	Available 2D: Portable Bridge 8 2E: Road needed Unspecified Unspecified Unspecified Unspecified be adequate)	32	Unavailable	soils, does not include	11	BMPs (stream, river, or	Unspecified	Unspecified	Unspecified
Needed (Dept. bridge will	Needed (Dept. bridge will be adequate)	C	Comments:						
	omments:	33	Available	Needed (Dept. bridge will	8	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:		C	Comments:						

Gaylord Mgt. Unit

Tricia St. Pierre : Examiner

34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments: Delay treatment until next inventory cycle for better growth on aspen in east. Add harvest to stands 26 and 75.									
35	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	4	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments: Slightly higher port	ion of stand that could possibly l	be treate	d with adjacent RP/MC s	tands.					
36	Available	2B: Unknown if access through adjacent landowner(s) is possible	6	Unspecified	Unspecified	Unspecified	Unspecified			
(Comments:									
37	Unavailable	5A: Not able to obtain desirable regeneration	35	Unspecified	Unspecified	Unspecified	Unspecified			
(Comments:									
38	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified			
(Comments:									
39	Unavailable	5A: Not able to obtain desirable regeneration	5	Unspecified	Unspecified	Unspecified	Unspecified			
(Comments:									

Gaylord Mgt. Unit
Tricia St. Pierre : Examiner

40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
41	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
42	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						

Mgt. Unit

Compartment: #Type! Year of Entry:

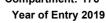


Report 5 - PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				

Gaylord Mgt. Unit Compartment: 176





Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservation Area	on Type	Description ERA = Ecological Reference Area HCVA = High Conservation Value SCA = Special Conservation Area									
SCA	Cold Water Lake	stocked trout populations and those of other coldwater fish speci conditions for coldwater fishes may occur in Michigan lakes if the	the has temperature and dissolved oxygen conditions that allow naturally-reproduced or opulations and those of other coldwater fish species to persist from year to year. Suitable coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial flows, or are located in colder (northern) areas of the state. Such lakes are established by n and designated as trout resources by Fisheries Order 200.								
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced o stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action ar designated as trout resources by Fisheries Order 210.									
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.									

S t	Gaylord	Gaylord Mgt. Unit			- Forested	Stands Compartment: 176 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Poletimber Medium	4.7	64	51-80	Royal fern and swamp thistle. Small, wet non-forest inclusion in north: alder, willow, cattail, dogwood mix.Dead black ash (EAB), trace red maple, trace white spruce in canopy. More open white cedar, black spruce to west; dense white spruce/white cedar/black spruce mix to east. Developing larch understory. Stand opens up in the north, dominated by larch. Extremely wet.
						1 XL red pine in canopy. Few beech (sap, variable) on edge of stand.
2	42210 - Natural Red Pine	Sawtimber Well	34.7	117	81-110	Large diameter RP, treated last YOE as a group selection. Lots of controversy concerning the sale.Pockets of dense white pine regen; few jack pine snags. Trace quaking aspen saplings. Few log red oak, red maple. Occasional pole red pine. Lower densities in southwest. Increased basal area in northeast. Bit smaller average diameter on lower ledge; few log red oak. Trace white spruce saps. Limited red pine regeneration without fire (or intense scarification). White pine will eventually take over this site. Stand was originally thinned in 1984, resulting in understory aspen 33 years old.
3	4311 - Pine, Aspen Mix	Sapling Medium	8.0	18	Immature	Stand was harvested two entries ago, Compartment 76 Mix, 52-111-99-01. Completed in 1999.A lot of sedge, but still good jack pine regeneration. South is pretty open, but gradually filling in.Retention pocket/adjusted private boundary (not flush) on west edge: red pine, white pine, oak, jack pine. North third is dominated by aspen, oak; red maple, white pine, balsam fir understory. South 2/3 is pole jack pine, aspen, red maple.
4	4130 - Aspen	Sawtimber Medium	13.6	85	81-110	Track jack pine, white pine in canopy; trace sugar maple in canopy. Significant amount of red maple and balsam fir small poles. Nice paper birch in northwest; heavily concentrated in west 1/4. Overmature aspen. Lowland characteristics. Illegal ORV trail through stand. Trace bigtooth. Portions of leg were entered during adjacent harvesting activities. Aspen declining, old stand retained from harvest because of stick nest concerns.
5	42290 - Natural Mixed Pine	Sawtimber Medium	12.8	114	141-170	Stream cooridor, steep Banks, large RP, WP, Aspen prime Eagles nest habitat. Terraced stand. Some of the bottom, lowland terraces are dominated by cedar. Seasonal drainage (N-S stretch) connecting stream corridor with cedar swamp to south. Dead black ash; trace sugar maple.
6	4130 - Aspen	Sapling Well	46.9	15	Unspecified	Harvested as Air Tanker Aspen, 52-124-99-01. Sale was not completely harvested, leaving a leg that became part of stand 4. Harvested area completed in 2002. 1 white cedar, 1 hemlock, 1 white spruce in canopy. Bit more open, serious beaver damage in south and west. One low spot, wet.
7	4132 - Aspen, Jack Pine	Sapling Well	10.2	18	Immature	Stand was harvested two entries ago, Compartment 76 Mix, 52-111-99-01. Completed in 1999. Mixed jack pine/aspen pockets. Mixed oak: pin, red, black. Trace oak, pin oak, red maple, black cherry sporadically in canopy. 4 mature white oak left.

S t	Gaylord	Gaylord Mgt. Unit			Forested	Stands Compartment: 176 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
8	4130 - Aspen	Sawtimber Well	7.8	55	81-110	Red maple saplings in pockets with medium stocking. Lot of deer browse. Jack pine along south edge, but not consistent throughout. East third of stand, especially around road and to the east edge, is much smaller, pole dominated. Trace balsam fir (pole) in canopy.
9	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	23.4	79	81-110	Forested portion of the stream cooridor of little pigeon river and other intermittent streams. Steep ravine, large dimater Aspen, RP, and WP.Far east non-forested inclusion: BAM (low, sap, variable), cattails (medium), white pine (trace, perimeter, sap, variable), white spruce (trace, perim, sap, var), balsam fir (low, perim, sap, var), white cedar (trace, sap, var). Neat inclusion.Concern over beaver damage. Classic aspen/spruce/fir type with cedar inclusions. Aspen/fir/spruce in west, gradual conversion to red pine/cedar/white pine/spruce in east. More cedar and spruce on flats along river corridor. Scattered spectacular stumps; trace BAM, black ash. Pocket of dense cedar (220 BA) in east; low, wet cedar in center narrow stretch. White spruce dominates far west on bottom of slope. Increase in natural red pine to east.
10	4311 - Pine, Aspen Mix	Sapling Medium	7.4	15	Immature	Trace sugar maple (pole), RP (log).
11	42210 - Natural Red Pine	Sawtimber Well	32.3	92	81-110	Trace jack pine and red maple in canopy. About 80% canopy closure. Large Diameter RP and WP, Natural stand. Harvest completed in 2003 as part of Rolex RP, 52-114-99-01. Sale bouught last time by Log Home manufacterer for minimum. May want to consider retaining stand for age class diversity.
12	42210 - Natural Red Pine	Sawtimber Well	10.8	138	81-110	Relic white pine on south edge. Some brooming in white pine. Occasional pole red oak, black oak. High white pine regeneration in north. Trace bigtooth, balsam fir, oak in canopy4 acre inclusion in northeast of jack pine saplings, 2". (JP 2" 60%, RP 1" 9%, WP 1" 1%, BTA 1" 30%, trace RM sap.) Natural red pine, smaller in diameter than stand to the north. Stand was thinned in 1999 YOE, 92 average BA. Harvested as part of Rolex RP, 52-114-99-01. Prior to that, white pine and cedar were removed from this 40 in 1976.
13	6139 - Mixed Lowland Forest	Poletimber Medium	14.9	68	81-110	A lot of coarse woody debris. Couple of white cedar pockets. Trace red pine in southeast. Trace hemlock, black cherry. BAs range 70-100. Variable stand, some areas heavy to deciduous types others heavy to conifers. There are large RP scattered through out the stand. Many pockets of wet lowland with BS and cedar present.
14	6130 - Fir, Aspen, Maple	Poletimber Well	10.5	75	51-80	Super canopy wp 150+ in age, very large diameters. These trees are scattered through out stand about 1 or 2 per acre. RM pole timber underneath. Low site. Trace witch hazel, white oak, and beech in the subcanopy. Trace red pine and jack pine in the southwest canopy. One black cherry (pole); one red osier dogwood. Smaller diameter quaking aspen-dominated in north and again in southeast tip. Likely a result of timber harvest in 1976, removing white pine and cedar. More log QA in east.
15	6122 - Black Spruce	Poletimber Poor	11.2	63	1-50	White spruce primarily on east edge. There are large pine scattered throughout the stand.

s t	Gaylord	Gaylord Mgt. Unit			Report 7 – Forested Stands Compartment: 1 Year of Entry: 20		
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
16	42210 - Natural Red Pine	Sawtimber Well	6.9	94	141-170	Trace red maple, bigtooth, and balsam fir in canopy. Mostly upland with a slight drainage through middle of stand; small drainage in west also. Few charred stumps on north edge of stand. Low end of 80% closure. Large diameter natural RP/WP stand. Access is difficult, stream crossing issues.	
17	6120 - Lowland Cedar	Poletimber Medium	33.9	103	81-110	Fairly dense balsam fir understory; dead black ash in south. Stumps. More willow in the very wet areas. Some pockets with very low BA dominated by lowland shrubs. Drainage flows through stand, from west to NE - wide in west, narrowing in the far east to a stream. Barely upland ground in far east, probably workable. Higher, QA, RM pick up; more white pine.	
18	42290 - Natural Mixed Pine	Sawtimber Well	4.6	104	51-80	Trace aspen, paper birch, hemlock, red oak, white oak. Pine barren potential. Variable stand, could openings. Cool stumps.	
20	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	7.2	92	51-80	Paper birch snags throughout. Poor quality site. Smaller diameters in north with better stocking, more red pine. Small drainage in south. Similar to stand 13 but less conifer component. Trace hemlock, white cedar on southwest corner.	
21	4133 - Aspen, Mixed Pine	Sawtimber Well	5.6	94	111-140	Far north edge drops down into adjacent lowland stream corridor.	
22	6130 - Fir, Aspen, Maple	Poletimber Well	37.3	44	51-80	BAs are highly variable, 20-110, averaging 73. Lot of blow-down in areas. Smaller diameter fir, clumpy white cedar, scattered relic white pine, red pine, and cedar. Cedar is more localized to north. West is more red maple, fir, quaking aspen; north is cedar, balsam fir, qa. It's a diverse and variable lowland mix. Not as much red maple in east and north. Stand harvested in 1973, regen is doing well at 30 yrs old. Lowland type- has pockets of cedar through out stand. a few RP were left after harvest.	
24	6120 - Lowland Cedar	Sawtimber Well	5.1	96	171-200	Vein of cedar. Stream runs though stand - this is a stream corridor. Non-forest inclusion in far east: alder (high-even), QA (low-clumps), cedar (low-perimeter), fir (low-perim) white spruce (trace-perim), birch (trace-perim).	
25	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	6.3	95	51-80		
26	42210 - Natural Red Pine	Sawtimber Well	19.5	78	141-170	Two-aged stand. Red pine is 78% LP, 78 years old, fire origin. 2% remnant 250 year old XL red pine, 24" dbh scattered throughout stand. Basal area is fairly consistently around 170. Some clumpy pole/sap aspen and red maple, especially near center of stand.	
27	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	32.0	95	81-110	Uniquely variable stand. Couple of low alder/holly pockets; <.5ac red-osier dogwood. Trace red oak. Higher concentration of XL red pine, white pine, white spruce in northeast.	

S t	Gaylord	Gaylord Mgt. Unit			- Forested	Stands Compartment: 176 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
28	42210 - Natural Red Pine	Sawtimber Well	8.3	83	81-110	South edge of stand drops into lowland. Hillside is occupied by black spruce, balsam fir, red pine, and white pine. Far southeast portion of stand also lowers in elevation, picking up more spruce and balsam fir. Couple pockets of jack pine. Very nice site for pine. Fire history.
30	4311 - Pine, Aspen Mix	Sawtimber Medium	4.9	75	81-110	Jack pine ridge in the southeast. Mix of quaking and bigtooth and natural red pine and white pine. 16" RP = 63 yo.
31	42220 - Natural Jack Pine	Sapling Poor	3.3	16	Immature	PU 3 of Basement Birch, 52-108-99-01. Completed in 2000. North perimeter of stand slopes down into adjacent lowland streamside floodplain. Slope is occupied by X/L/P red, jack, and white pine, larch, and some spruce/fir.
34	6112 - Lowland Aspen	Sawtimber Medium	7.0	96	81-110	Illegal ORV trail through stand. Pretty significant wind disturbance in northwest. Upland areas, surrounded by lowland. Few pole quaking aspen on north end; couple log red maple. Dead black cherry, black ash on edge of northeast lowland.
						Old comments are applicable: BF is wind thrown in many areas, has opened up canopy. Lowland conifer is most areas, some poor quality, old aspen with significant mortality. This stand serves as a landscape based retention of mature aspen in comp 176. Raptor nests in this forest type are very common in this area, and have been found when harvesting stands or setting them up in this compartment last YOE.
35	4130 - Aspen	Sapling Well	4.9	16	Immature	Wintergreen, bracken fern, blueberry, and sweet fern ground flora. Trace red pine (S/P) on perimeter in canopy. Cherry brush. Landing in far southeast corner, NF. PU 3 of Basement Birch, 52-108-99-01. Completed in 2000. North portion of stand was slow to regenerate and has become a separate stand (31).
36	42210 - Natural Red Pine	Sawtimber Medium	2.7	300	81-110	Trace quaking aspen, log. RM and PB present in P/S/L in subcanopy. Red pine, 24", 110 years old after 3", then rot.
37	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	13.3	110	141-170	Trace black ash (with EAB), hemlock, and balsam fir in canopy. Trace white ash, beech in subcanopy. Stand occupies a short but in some cases steep hill and floodplain into river. Very wet in spots. Occasional dead BAM. Balsam fir becoming more common the further north you travel. High wildlife value. Old comments: Forested portion of the stream cooridor of little pigeon river and other intermittent streams. Steep ravine, large dimater Aspen, RP, and WP.
38	4133 - Aspen, Mixed Pine	Sawtimber Well	46.6	72	111-140	Stand was set up and sold, but handed back in without being cut. 118 ave BA. Browsing on hardwood (primarily red maple, oak) regen. Trace quaking aspen in the north. Trace paper birch.
39	4139 - Aspen, Mixed Deciduous	Sawtimber Medium	1.5	91	81-110	Bracken fern and blueberry ground flora. BAs range 60-110, averaging 80.

S t	Gaylord	Gaylord Mgt. Unit			- Forested	Stands Compartment: 176 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	4130 - Aspen	Sapling Well	27.1	16	Immature	Lowland pockets are slower to regenerate. Cattails, alder in these areas. Few residual white and red pine, red oak. Stand was harvested last YOE as part of ED Aspen, harvesting completed in March of 2001. All trees were harvested except WP and Oak, as well as some RP. Ed Aspen, 52-133-99-01. Sale was never completed. East portion became stand 45.
41	6120 - Lowland Cedar	Poletimber Well	24.5	129	171-200	Dense cedar swamp with supercanopy WP and BS scattered throughout stand. Silver creek runs through the stand, which leads into little Pigeon River. BS/larch pole/log dominated on inside edge of stand 60 (nonforested). Alder under balsam fir too. Isolated pockets of tip-ups. Occasional dense balsam fir regeneration. Trace black ash, most dead. A lot of little drainages to stream. Some dead balsam fir in canopy. Small rise in elevation has a significant impact on species composition in the southernmost portion - more open, larger diameters: more pb, rm, bs; becomes a lower stocked log stand with dense bf regen.
42	42290 - Natural Mixed Pine	Sawtimber Medium	7.7	62	81-110	Unique stand because of large diameter RP and WP- some trees exceding 36" DBH. Bear tracks. 24-48" red and white pine scattered consistently throughout stand. Red pine increases in middle. Trace oak (east), paper birch (scattered). Less canopy closure in east. Variable regeneration, clumpy.
43	42110 - Planted Red Pine	Sawtimber Well	11.1	56	81-110	Stand thinned as part of Silver Road Pine (52-124-09-01). Little variation between the islands. Southwest clump has trace quaking aspen and jack pine with low balsam fir and trace beech understory. Central larger clump has a bit more jack pine with low bta occurrence and trace white pine; trace red oak saplings in subcanopy. East small pocket is all red pine with one white pine on the perimeter, couple XL red pine. BA also varies between clumps: SW: 130, central 93; east 88.
44	4311 - Pine, Aspen Mix	Sapling Well	84.1	22	1-50	Small pole. South half of stand is much smaller in diameter, a sapling stand yet. Very dense planted jack pine is still sapling size too. Some low spots in northeast. Residual red pine scattered. Stand was harvested as Silver Creek Jack, 52-057-92-01. Completed in 1993.Planted JP with natural Aspen regen over top. Both doing fine at this point. Aspen is 10-20', JP at about 10-12' tall.
45	42290 - Natural Mixed Pine	Sawtimber Poor	28.9	83	51-80	Featured stand is a mix of residual RP, WP, and Oak left from a clearcut with reserves, completed in 2001. Aspen regen around pine is doing well. Residual is heavy to WP along southern boundary, more to RP along Eastern edge of stand. Regeneration is mostly quaking aspen, though it becomes bigtooth in the east. Couple drainages in west part of stand with trace amounts of arrowwood and alder.
47	6124 - Lowland Spruce- Fir	Poletimber Medium	5.1	120	Unspecified	Low and wet BS stand mixed with PB, BF, and Cedar., Tag alder/BF understory is thick. Bear Bait station near north edge of stand. North ridge has XL red and white pine. Very neat acre.

s t	Gaylord	Gaylord Mgt. Unit			eport 7 – Forested Stands Compartment: 176 Year of Entry: 201		
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
48	4311 - Pine, Aspen Mix	Sapling Well	19.9	6	1-50	Stand harvested as part of Silver Road Pine (52-124-09-01). Completed in 2011. Supercanopy red pine, white pine, trace red oak and white spruce. Heavy browsing in spots. More XL white pine in north; two red oak saplings. Occasional white pine sapling in sapling canopy. Low pocket in east with cedar (one) and cattails - draining flow NW-SE through the eastern quarter of the stand.	
49	4311 - Pine, Aspen Mix	Sawtimber Medium	23.4	53	51-80	Trace red oak and black cherry in canopy. Highly variable ages, diameters. BAs range 50-160 (160 in dense aspen clones); mostly 50-80 BA. Westernmost edge of stand has very nice, although few, red oak saplings, 10-20'. Trace sugar maple regeneration just to the east of the two-track. Pockets of (somewhat dense) red maple regen. Small lowland pocket at the confluence of stands 48, 55, and 49. Narrow stretch in east includes some relic red and white pine; lots more red maple; trace quaking aspen and jack pine. Very difference from west. Far east is a pocket of Quaking aspen with red and white pine, scattered. Some JP, RM too. Old comments are still applicable: This stand is comprised of an aspen encroachment edge that is slowly filling in a non-forested stand. Younger trees near nonforested stand, older as you get back into stand away from u-type. Low stocking in many areas.	
50	4311 - Pine, Aspen Mix	Sawtimber Well	45.2	65	81-110	Pockets of aspen, pockets of jack pine. Variable aspen diameters, ages. Inclusion of a red pine plantation (about 45 years old) in extreme west leg (NW-SE). Wintergreen and bracken fern ground cover throughout. BAs range 80-160, 112 average, but 100 mode. Nice JP site, aspen is medium quality. PArVVb site.	
51	42110 - Planted Red Pine	Poletimber Medium	17.2	56	51-80	Stand havested as part of Silver Road Pine, 52-124-09-01. Residual basal areas are erratic - ranging from 60-130, some open pockets <30BA. Part plantation, part natural. Red pine interplanted in 1961. Heavily browsed deciduous regen. Trace white oak sapling (<1') in southeast.	
53	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	3.0	61	81-110		
54	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	25.4	104	111-140	Stream corridor gradually sloping into stream; slopes becoming rather steep in west. Beaver damage fairly consistent throughout stand. Mecca for wildlife - tracks everywhere. Middle of stand is a near monoculture of white cedar with white spruce, paper birch, red maple, and quaking aspen mixed in the canopy; balsam fir understory where present. [Far east in more of an inclusion: some red oak, more balsam fir and red maple in canopy. High and dry. Subcanopy includes white spruce, balsam fir, nannyberry, red oak, white pine, beech.] Trace black spruce in canopy. Some relic red and white pine, XL, >150 years old. Species stratification by elevation: RP/BTA/BF upper; WC/BS lower; RM/WP/PB all.	
55	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	17.0	82	141-170	Large Dimaeter Natural WP and RP, small stand, well stocked. Few dead paper birch snags. One white cedar, pole. QA clone in NW. Eastern legs: North leg is heavy to red oak. Southern leg is heavier to white pine (60:40 WP:RP), JP on edge. Drainage through south central and southern leg, subsurface. Trace white ash sap in northwest; trace balsam fir in canopy in nw extreme.	

s t	Gaylord	Gaylord Mgt. Unit			Forested	Stands Compartment: 176 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
56	4130 - Aspen	Sapling Well	52.4	17	Immature	Aspen regen from harvets completed in 2000, as part of Basement Birch. Trace ironwood, elm, beech in canopy. This stand could be split a few times based on hydrology and site characteristic. The west leg is lowland quaking aspen, trace ash in canopy. One small pocket of good quality soil with leatherwood, oak, and ironwood (and conifers) present. Understory is a good mix of coniferous and deciduous species; alder and willow are keeping up with the canopy aspen in some areas. Southernmost portion of stand is upland BTA on a much drier PArVVb site, very little in the way of a subcanopy except for sweet fern, hazelnut, and mixed conifer (JP/WP/BF), trace cherry, oak. East narrow leg is a mix of upland and lowland, more super-canopy red oak, hardly any subcanopy. Extreme northeast has trace hemlock, striped maple. Also throughout stand: trace dogwood, nannyberry, Michigan holly.
58	42110 - Planted Red Pine	Poletimber Well	7.9	56	141-170	Thinned in 2012 as part of Silver Road Pine (51-124-10-01). Stand was planted in 1961. RP stems are approaching 14" average. Trace white ash (6"). Trace oak (L/P), red maple (L), apple (sap) on perimeter, along road. Heavy browsing and mechanical damage to subcanopy. Basal areas range 110-180, averaging around 150. A bit more open in middle and on the edges. Pocket of very old, very large lilac with a log-sized apple tree in the middle of the stand.
59	4123 - Red Oak	Sawtimber Poor	17.7	112	1-50	Stand consists of residual WP, RP, Hemlock, and RO left from harvest in 2000. Dense aspen, mixed hardwood, mixed conifer understory. Most red oak saplings are browsed. Most white pine canopy is in the south portion of the stand. Larger diameter white pine, red pine south of road. A couple wet areas in north and in south. Hemlock is in the north only. Residual basal area varies, 30-100. Most BAs were in the 30-60 range.
61	4311 - Pine, Aspen Mix	Sawtimber Well	4.5	86	111-140	FORMER COMMENTS: JP/Aspen mix, nice JP site, aspen is medium quality. Will need to check Kotar for post treatment details.
62	6120 - Lowland Cedar	Sawtimber Well	11.2	99	141-170	Silver creek runs through the stand, leading into the Little Pigeon River.
63	6112 - Lowland Aspen	Sawtimber Medium	2.1	96	51-80	White pine and red pine on east edge of stand.
65	42210 - Natural Red Pine	Sawtimber Well	3.1	117	171-200	
66	6120 - Lowland Cedar	Poletimber Well	5.1	76	81-110	Inventory completed 12/14/2010. 40 ac added to adjacent compartment in 2016. Some mortality. Small diameters.
67	42110 - Planted Red Pine	Sawtimber Well	5.4	83	81-110	Inventory completed 12/14/2010. 40 ac added to adjacent compartment in 2016. Nice red pine. Thinned last entry with adjacent stand.
70	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	7.5	57	51-80	Inventory completed 12/2010. 40 ac added to adjacent compartment in 2016.

S t	Gaylord	Gaylord Mgt. Unit			- Forested	Stands Compartment: 176 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
71	4139 - Aspen, Mixed Deciduous	Sawtimber Well	5.9	79	81-110	Inventory completed 12/2010. 40 ac added to adjacent compartment in 2016. Small mixed stand. Only access is through private.
73	4133 - Aspen, Mixed Pine	Sapling Well	63.9	34	Unspecified	Inventory completed 2/2011. 80 ac added to adjacent compartment in 2016. Small RO, JP component in SW, just S of the road. Some X log WP, 30+".
74	4130 - Aspen	Poletimber Well	13.6	31	Unspecified	Inventory completed 2/2011. 80 ac added to adjacent compartment in 2016.
75	42290 - Natural Mixed Pine	Sawtimber Well	17.7	78	141-170	Small drainage in NE that runs through stand; cedar present. Some cedar also in northwest. Clumpy stand, varying densities. BAs range from 70-190, averaging around 125. More densely stocked areas average around 160 BA. Smaller diameters on red pine in these pockets.
76	429 - Mixed Upland Conifers	Sawtimber Well	3.7	99	81-110	Charred stumps scattered throughout stand. Trace black cherry in canopy. XL/L dominated north spur. East half drops down; trace hemlock, black spruce. QA picks up. East half is white pine/white spruce dominated with white cedar mixed in. West half is upland, a bit more open and younger white pine with scattered red maple, balsam fir, jack pine, and an occasional aspen. Less balsam fir in east.
77	429 - Mixed Upland Conifers	Sawtimber Well	4.6	65	51-80	Rather steep hill into river. Some dead jack pine. Evidence of fire history within this stand - probably came in across cedar swamp. Portions of stand extending into floodplain are dead standing cedar, now dominated by balsam fir (90%), white spruce (8%), and white cedar (2%). Log white spruce on edge of floodplains and again in north. Trace red pine, red oak, beech, nannyberry, black cherry saplings along road in north.
78	429 - Mixed Upland Conifers	Sawtimber Well	3.4	86	81-110	Southern perimeter slopes into adjacent lowland. The west portion of this stand is especially lower, more spruce, fir, jack pine.
79	42110 - Planted Red Pine	Sawtimber Well	3.6	56	111-140	Heavy browsing on red maple regen. Trace balsam fir, 9", jack pine (L/P). Aspen clone in center of stand. BAs range 90-170, average 129.
80	6122 - Black Spruce	Poletimber Well	9.1	75	51-80	East half is lowland black spruce with a couple pockets of cedar, some pockets of dense balsam fir sapling subcanopy with minimal canopy, some L/X RP. Narrow middle stretch begins to transition to upland. Northwest is a little upland knoll. There south becomes upland/lowland mix, more aspen, and pine. Lower basal areas in the southwest bubble with much larger diameters, dominated by aspen and pine. Black spruce core showed 61 years (10" dbh) + time to reach height (est 15 years). Most mature forest types have been around 84-86 years old in this area, so it could have taken longer for this stand to become established.



Stand	Cover Type	Acres	Managed Site	General Comments:
19	622 - Lowland Shrub	5.0	No	Formerly lowland cedar swamp; two old dams - likely altered hydrology and flooded out cedar. Trace BAM on edges. Dense band of cedar, fir, white spruce, alder towards the north. More white pine in the north above this band of conifers/alder, also not as wet. North part is more forested, mixed confer: spruce, pine, fir. A lot of beaver damage on edges.
23	6233 - Wet Meadow	43.5	No	Wet meadow/floodplain along the Little Pigeon River. Areas with beaver floodings has influenced vegetation. Formerly cedar/spruce is now sapling/pole fir/spruce.
29	6220 - Alder/willow	1.8	No	Trace log larch; dead scattered cedar.
32	623 - Emergent Wetland	9.6	No	Dead standing cedar. Sensitive fern winter fronds present. Trace leatherleaf.
33	622 - Lowland Shrub	4.4	No	Edges are forested with pole/sap lowland hardwoods and softwood - red maple, paper birch, black ash, balsam fir; alder/fir/holly subcanopy. Vaccinium on west edge into forested stand.
46	623 - Emergent Wetland	10.0	No	Dead standing cedar. Old stumps in areas.
52	330 - Low-Density Trees	10.9	No	Non-forested opening converging on forested. Clump of L/XL red oak in center. One old, declining apple tree (west center). Variable heights and diameters, saplings to logs.
60	623 - Emergent Wetland	5.5	No	Dead standing cedar.Saplings, poles very slowly filling in portions of this stand. The north is especially dense with poles and portions of saplings. Sapling/pole larch, black spruce. Creek through stand.
64	6220 - Alder/willow	1.3	No	Stand was harvested last YOE as part of ED Aspen, harvesting completed in March of 2001. All trees were harvested except WP and Oak, as well as some RP. Regen looks good, 10-20 ft tall, mostly QA some BT and RM as well. Some wet areas that have not regenerated yet, only cattails.
68	500 - Water	2.0	No	Inventory completed 12/2010. 40 ac added to adjacent compartment in 2016.
69	629 - Mixed non-forested wetland	11.1	No	Inventory completed 12/2010. 40 ac added to adjacent compartment in 2016.
72	629 - Mixed non-forested wetland	1.9	No	Inventory completed 12/2010. 40 ac added to adjacent compartment in 2016.
81	6233 - Wet Meadow	1.4	No	Northern wet meadow with some cedar, balsam, and spruce mixed in. White pine on the periphery. Some dead standing cedar, spruce. Stump field in far east.